

Title (en)
COIL SEGMENT FORMING DEVICE, COIL SEGMENT FORMING METHOD, AND ROTATING ELECTRIC MACHINE MANUFACTURING DEVICE

Title (de)
SPULENSEGMENTBILDUNGSVORRICHTUNG, SPULENSEGMENTBILDUNGSVERFAHREN UND HERSTELLUNGSVORRICHTUNG FÜR ELEKTRISCHE DREHMASCHINE

Title (fr)
DISPOSITIF DE FORMATION DE SEGMENT DE BOBINE, PROCÉDÉ DE FORMATION DE SEGMENT DE BOBINE ET DISPOSITIF DE FABRICATION DE MACHINE ÉLECTRIQUE ROTATIVE

Publication
EP 3484029 A4 20191106 (EN)

Application
EP 18826479 A 20180508

Priority
• JP 2017151577 A 20170804
• JP 2018017764 W 20180508

Abstract (en)
[origin: US2019109524A1] A coil segment forming apparatus includes a second bending section for bending a first bent body consisting of a pair of slot insertion portions that are substantially parallel to each other and a linking portion for connecting the pair of slot insertion portions formed in the same plane. The bending of the first bent body is carried out in a plane perpendicular to the aforementioned same plane. The second bending section has a plurality of pairs of press jigs arranged to oppose to each other in directions intersecting with the aforementioned same plane for pinching and pressing the linking portion, and a plurality of drive mechanisms for moving respectively the plurality of pairs of press jigs in directions intersecting with the aforementioned same plane based on moving amounts respectively set depending on forming conditions of the coil segment to be formed.

IPC 8 full level
H02K 3/04 (2006.01); **H02K 15/04** (2006.01)

CPC (source: EP US)
H02K 3/04 (2013.01 - US); **H02K 15/04** (2013.01 - US); **H02K 15/0421** (2013.01 - EP US); **H02K 15/064** (2013.01 - US); **H02K 15/067** (2013.01 - US)

Citation (search report)
• [X1] US 2012223611 A1 20120906 - WATANABE ATSUSHI [JP], et al
• [X1] US 2012181891 A1 20120719 - YAMADA TAKASHI [JP], et al
• See references of WO 2019026371A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 11251687 B2 20220215; **US 2019109524 A1 20190411**; CN 109618562 A 20190412; CN 109618562 B 20220111; EP 3484029 A1 20190515; EP 3484029 A4 20191106; JP 2019033555 A 20190228; JP 6430599 B1 20181128; WO 2019026371 A1 20190207

DOCDB simple family (application)
US 201816216165 A 20181211; CN 201880002311 A 20180508; EP 18826479 A 20180508; JP 2017151577 A 20170804; JP 2018017764 W 20180508